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Reviewer: Anne Corrigan

Timestamp: [year=2008; month=10; day=15; hr=12; min=0; sec=39; ms=173; ]

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Application No: 09912559 Version No: 1.0

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<110> APPLICANT: ROEMISCH, JUERGEN  
STOEHR, HANS-ARNOLD  
FEUSSNER, ANNETTE  
LANG, WIEGAND  
WEIMER, THOMAS  
BECKER, MARGRET  
NERLICH, CLAUDIA  
MUTH-NAUMANN, GUDRUN

<120> TITLE OF INVENTION: MUTANTS OF THE FACTOR VII-ACTIVATING PROTEASE AND  
DETECTION METHODS USING SPECIFIC ANTIBODIES

<130> FILE REFERENCE: 06478.1457

<140> CURRENT APPLICATION NUMBER: 09912559  
<141> CURRENT FILING DATE: 2001-07-26  
<150> PRIOR APPLICATION NUMBER: DE 100 36 641.4  
<151> PRIOR FILING DATE: 2000-07-26  
<150> PRIOR APPLICATION NUMBER: DE 100 50 040.4  
<151> PRIOR FILING DATE: 2000-10-10  
<150> PRIOR APPLICATION NUMBER: DE 100 52 319.6  
<151> PRIOR FILING DATE: 2000-10-21  
<150> PRIOR APPLICATION NUMBER: DE 101 18 706.8  
<151> PRIOR FILING DATE: 2001-04-12  
<160> NUMBER OF SEQ ID NOS: 4  
<170> SOFTWARE: PatentIn Ver. 2.1

<210> SEQ ID NO 1  
<211> LENGTH: 1683  
<212> TYPE: DNA  
<213> ORGANISM: Homo sapiens  
<400> SEQUENCE: 1

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Leu Asp Pro Asp Trp Thr Pro Asp Gln Tyr Asp Tyr Ser Tyr Glu Asp  
35 40 45  
Tyr Asn Gln Glu Glu Asn Thr Ser Ser Thr Leu Thr His Ala Glu Asn  
50 55 60  
Pro Asp Trp Tyr Tyr Thr Glu Asp Gln Ala Asp Pro Cys Gln Pro Asn  
65 70 75 80  
Pro Cys Glu His Gly Gly Asp Cys Leu Val His Gly Ser Thr Phe Thr  
85 90 95  
Cys Ser Cys Leu Ala Pro Phe Ser Gly Asn Lys Cys Gln Lys Val Gln  
100 105 110

Asn Thr Cys Lys Asp Asn Pro Cys Gly Arg Gly Gln Cys Leu Ile Thr  
115 120 125  
Gln Ser Pro Pro Tyr Tyr Arg Cys Val Cys Lys His Pro Tyr Thr Gly  
130 135 140  
Pro Ser Cys Ser Gln Val Val Pro Val Cys Arg Pro Asn Pro Cys Gln  
145 150 155 160  
Asn Gly Ala Thr Cys Ser Arg His Lys Arg Arg Ser Lys Phe Thr Cys  
165 170 175  
Ala Cys Pro Asp Gln Phe Lys Gly Lys Phe Cys Glu Ile Gly Ser Asp  
180 185 190  
Asp Cys Tyr Val Gly Asp Gly Tyr Ser Tyr Arg Gly Lys Met Asn Arg  
195 200 205  
Thr Val Asn Gln His Ala Cys Leu Tyr Trp Asn Ser His Leu Leu Leu  
210 215 220  
Gln Glu Asn Tyr Asn Met Phe Met Glu Asp Ala Glu Thr His Gly Ile  
225 230 235 240  
Gly Glu His Asn Phe Cys Arg Asn Pro Asp Ala Asp Glu Lys Pro Trp  
245 250 255  
Cys Phe Ile Lys Val Thr Asn Asp Lys Val Lys Trp Glu Tyr Cys Asp  
260 265 270  
Val Ser Ala Cys Ser Ala Gln Asp Val Ala Tyr Pro Glu Glu Ser Pro  
275 280 285  
Thr Glu Pro Ser Thr Lys Leu Pro Gly Phe Asp Ser Cys Gly Lys Thr  
290 295 300  
Glu Ile Ala Glu Arg Lys Ile Lys Arg Ile Tyr Gly Gly Phe Lys Ser  
305 310 315 320  
Thr Ala Gly Lys His Pro Trp Gln Ala Ser Leu Gln Ser Ser Leu Pro  
325 330 335  
Leu Thr Ile Ser Met Pro Gln Gly His Phe Cys Gly Gly Ala Leu Ile  
340 345 350  
His Pro Cys Trp Val Leu Thr Ala Ala His Cys Thr Asp Ile Lys Thr  
355 360 365  
Arg His Leu Lys Val Val Leu Gly Asp Gln Asp Leu Lys Lys Glu Glu  
370 375 380  
Phe His Glu Gln Ser Phe Arg Val Glu Lys Ile Phe Lys Tyr Ser His  
385 390 395 400  
Tyr Asn Glu Arg Asp Glu Ile Pro His Asn Asp Ile Ala Leu Lys  
405 410 415  
Leu Lys Pro Val Asp Gly His Cys Ala Leu Glu Ser Lys Tyr Val Lys  
420 425 430  
Thr Val Cys Leu Pro Asp Gly Ser Phe Pro Ser Gly Ser Glu Cys His  
435 440 445  
Ile Ser Gly Trp Gly Val Thr Glu Thr Gly Lys Gly Ser Arg Gln Leu  
450 455 460  
Leu Asp Ala Lys Val Lys Leu Ile Ala Asn Thr Leu Cys Asn Ser Arg  
465 470 475 480  
Gln Leu Tyr Asp His Met Ile Asp Asp Ser Met Ile Cys Ala Gly Asn  
485 490 495  
Leu Gln Lys Pro Gly Gln Asp Thr Cys Gln Gly Asp Ser Gly Gly Pro  
500 505 510  
Leu Thr Cys Glu Lys Asp Gly Thr Tyr Tyr Val Tyr Gly Ile Val Ser  
515 520 525  
Trp Gly Leu Glu Cys Gly Lys Arg Pro Gly Val Tyr Thr Gln Val Thr  
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<211> LENGTH: 560

<212> TYPE: PRT

<213> ORGANISM: Homo sapiens

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Leu Asp Pro Asp Trp Thr Pro Asp Gln Tyr Asp Tyr Ser Tyr Glu Asp  
35 40 45  
Tyr Asn Gln Glu Glu Asn Thr Ser Ser Thr Leu Thr His Ala Glu Asn  
50 55 60  
Pro Asp Trp Tyr Tyr Glu Asp Gln Ala Asp Pro Cys Gln Pro Asn  
65 70 75 80  
Pro Cys Glu His Gly Gly Asp Cys Leu Val His Gly Ser Thr Phe Thr  
85 90 95  
Cys Ser Cys Leu Ala Pro Phe Ser Gly Asn Lys Cys Gln Lys Val Gln  
100 105 110  
Asn Thr Cys Lys Asp Asn Pro Cys Gly Arg Gly Gln Cys Leu Ile Thr  
115 120 125  
Gln Ser Pro Pro Tyr Tyr Arg Cys Val Cys Lys His Pro Tyr Thr Gly  
130 135 140  
Pro Ser Cys Ser Gln Val Val Pro Val Cys Arg Pro Asn Pro Cys Gln  
145 150 155 160  
Asn Gly Ala Thr Cys Ser Arg His Lys Arg Arg Ser Lys Phe Thr Cys  
165 170 175  
Ala Cys Pro Asp Gln Phe Lys Gly Lys Phe Cys Glu Ile Gly Ser Asp  
180 185 190  
Asp Cys Tyr Val Gly Asp Gly Tyr Ser Tyr Arg Gly Lys Met Asn Arg  
195 200 205  
Thr Val Asn Gln His Ala Cys Leu Tyr Trp Asn Ser His Leu Leu Leu  
210 215 220  
Gln Glu Asn Tyr Asn Met Phe Met Glu Asp Ala Glu Thr His Gly Ile  
225 230 235 240  
Gly Glu His Asn Phe Cys Arg Asn Pro Asp Ala Asp Glu Lys Pro Trp  
245 250 255  
Cys Phe Ile Lys Val Thr Asn Asp Lys Val Lys Trp Glu Tyr Cys Asp  
260 265 270  
Val Ser Ala Cys Ser Ala Gln Asp Val Ala Tyr Pro Glu Glu Ser Pro  
275 280 285  
Thr Glu Pro Ser Thr Lys Leu Pro Gly Phe Asp Ser Cys Gly Lys Thr  
290 295 300  
Glu Ile Ala Glu Arg Lys Ile Lys Arg Ile Tyr Gly Gly Phe Lys Ser  
305 310 315 320  
Thr Ala Gly Lys His Pro Trp Gln Ala Ser Leu Gln Ser Ser Leu Pro  
325 330 335  
Leu Thr Ile Ser Met Pro Gln Gly His Phe Cys Gly Gly Ala Leu Ile  
340 345 350  
His Pro Cys Trp Val Leu Thr Ala Ala His Cys Thr Asp Ile Lys Thr  
355 360 365  
Arg His Leu Lys Val Val Leu Gly Asp Gln Asp Leu Lys Lys Glu Glu  
370 375 380  
Phe His Glu Gln Ser Phe Arg Val Gln Lys Ile Phe Lys Tyr Ser His  
385 390 395 400  
Tyr Asn Glu Arg Asp Glu Ile Pro His Asn Asp Ile Ala Leu Leu Lys  
405 410 415

Leu Lys Pro Val Asp Gly His Cys Ala Leu Glu Ser Lys Tyr Val Lys  
420 425 430  
Thr Val Cys Leu Pro Asp Gly Ser Phe Pro Ser Gly Ser Glu Cys His  
435 440 445  
Ile Ser Gly Trp Gly Val Thr Glu Thr Gly Lys Gly Ser Arg Gln Leu  
450 455 460  
Leu Asp Ala Lys Val Lys Leu Ile Ala Asn Thr Leu Cys Asn Ser Arg  
465 470 475 480  
Gln Leu Tyr Asp His Met Ile Asp Asp Ser Met Ile Cys Ala Gly Asn  
485 490 495  
Leu Gln Lys Pro Gly Gln Asp Thr Cys Gln Gly Asp Ser Gly Gly Pro  
500 505 510  
Leu Thr Cys Glu Lys Asp Gly Thr Tyr Tyr Val Tyr Gly Ile Val Ser  
515 520 525  
Trp Gly Leu Glu Cys Glu Lys Arg Pro Gly Val Tyr Thr Gln Val Thr  
530 535 540  
Lys Phe Leu Asn Trp Ile Lys Ala Thr Ile Lys Ser Glu Ser Gly Phe  
545 550 555 560